FIG.1A

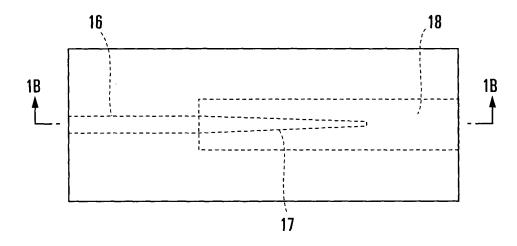


FIG.1B

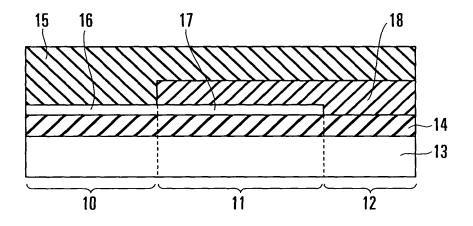


FIG.2A

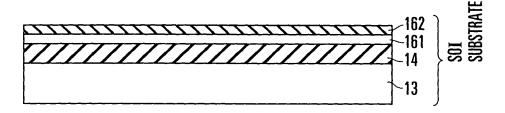


FIG.2B

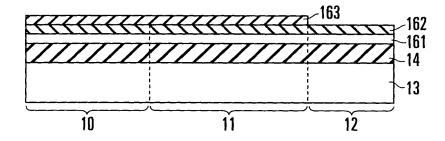


FIG.2C

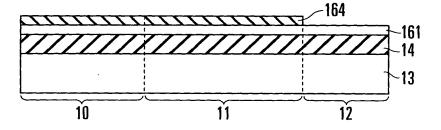


FIG.2D

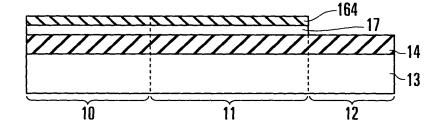


FIG.2E

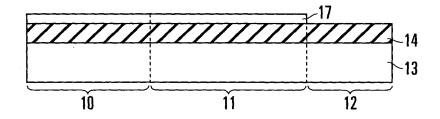


FIG.2F

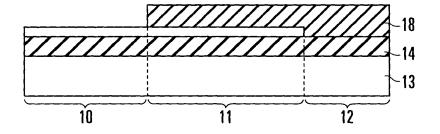


FIG.2G

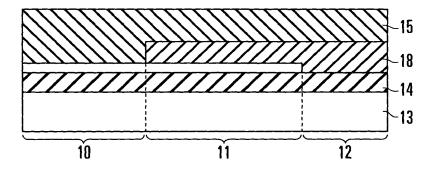


FIG.3A

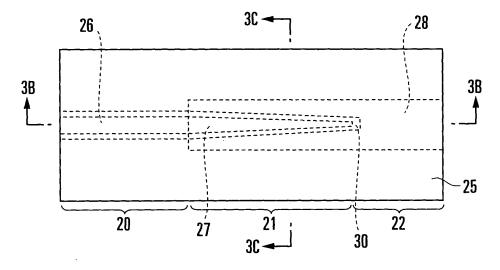


FIG.3B

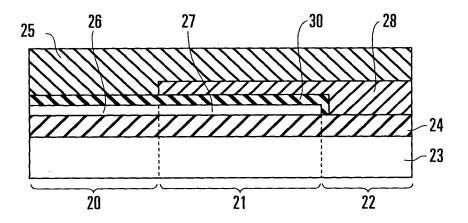


FIG.3C

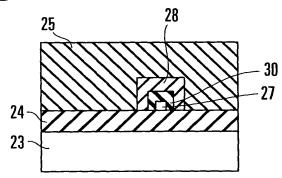


FIG.4A

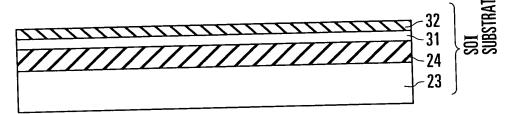


FIG.4B

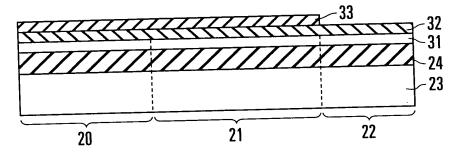


FIG.4C

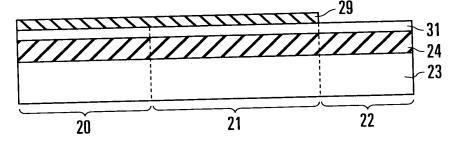


FIG.4D

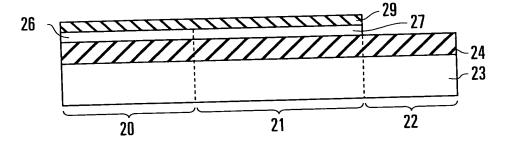


FIG.4E

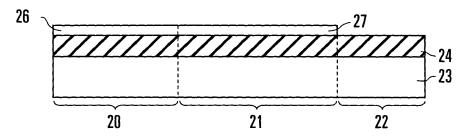


FIG.4F

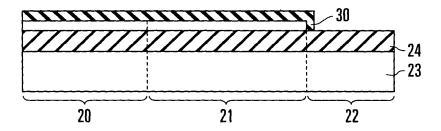


FIG.4G

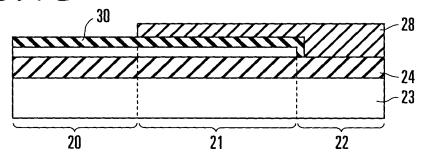
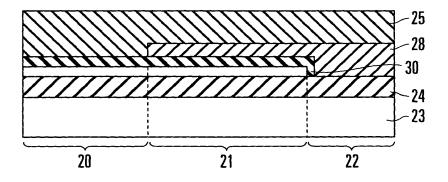


FIG.4H



SHAPE OF FIRST CORE OF FIRST OPTICAL WAVEGUIDE BEFORE OXIDATION SHAPE OF TAPERED PORTION AFTER OXIDATION SHAPE OF TAPERED PORTION AFTER OXIDATION BEFORE OXIDATION



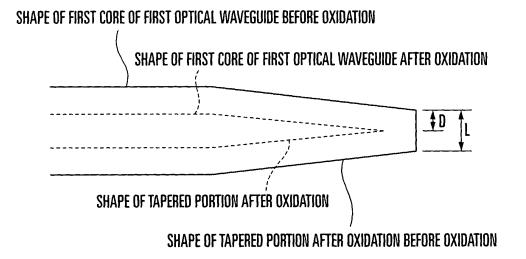


FIG.6

F I G. 5

FIG.7A

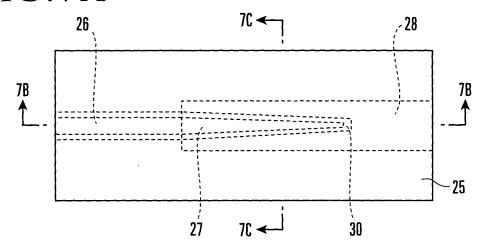


FIG.7B

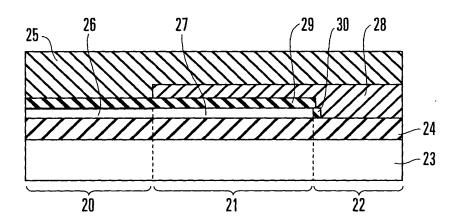


FIG.7C

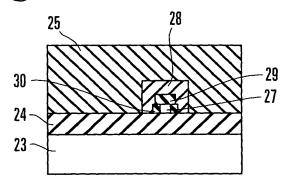


FIG.8A

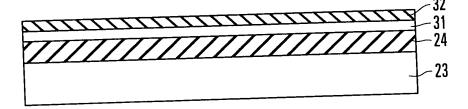


FIG.8B

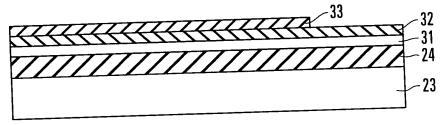


FIG.8C

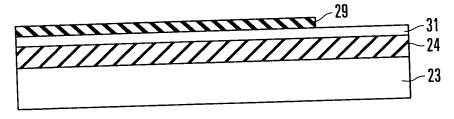


FIG.8D

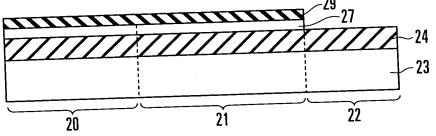


FIG.8E

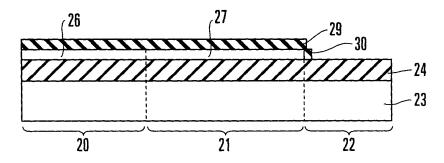


FIG.8F

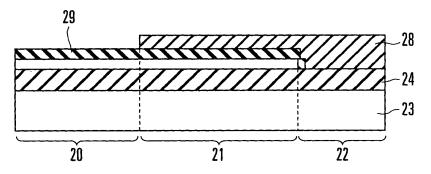


FIG.8G

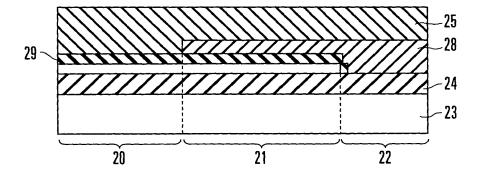


FIG.9A

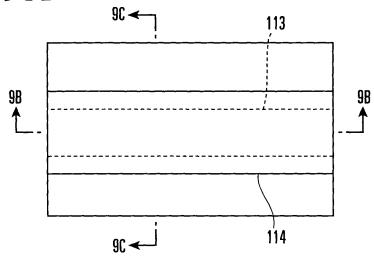


FIG.9B

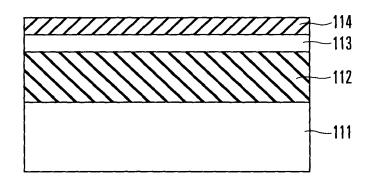


FIG.9C

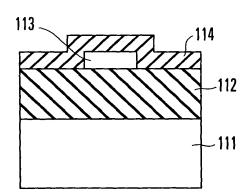


FIG.10A

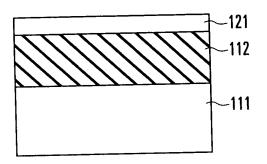


FIG.10D

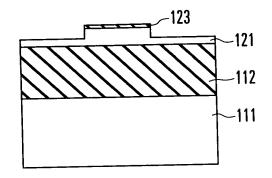


FIG.10B

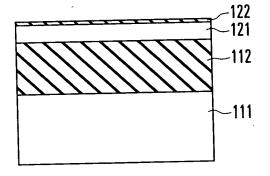


FIG.10E

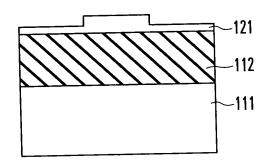


FIG.10C

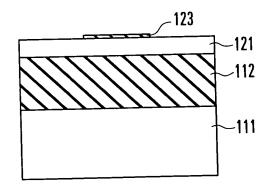
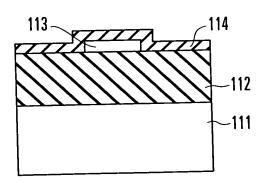
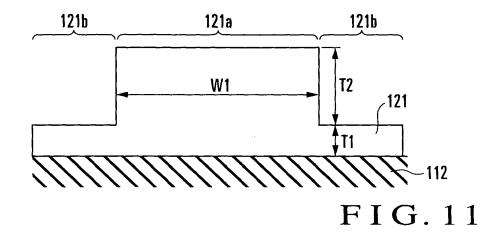
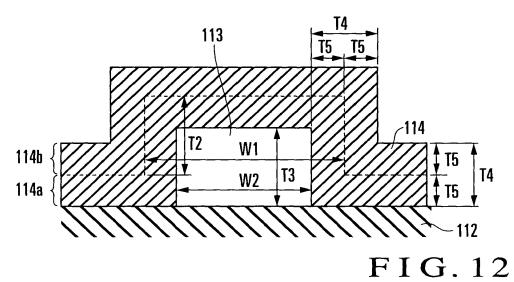
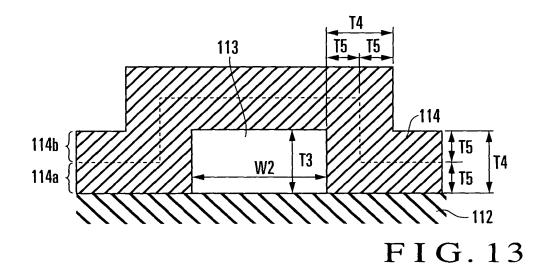


FIG.10F









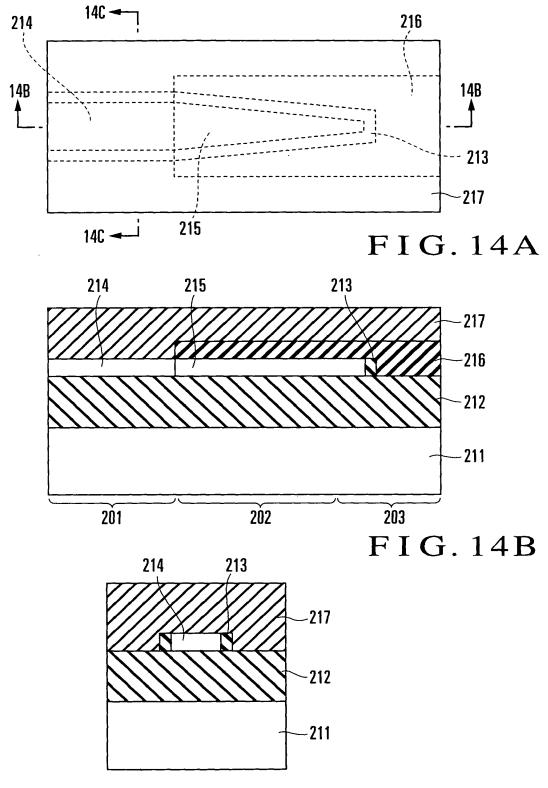


FIG. 14C

FIG. 15A

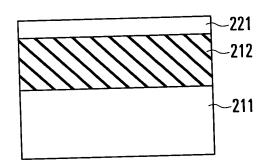


FIG. 15D

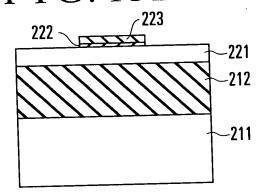


FIG. 15B

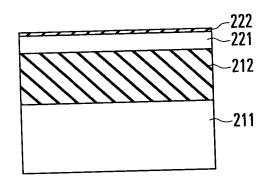


FIG. 15E

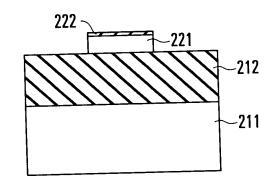


FIG. 15C

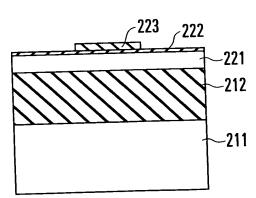


FIG. 15F

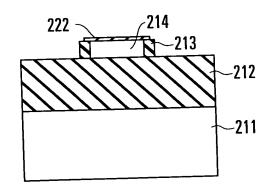


FIG. 15G

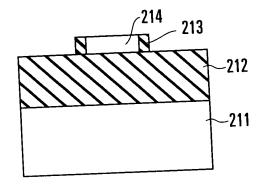
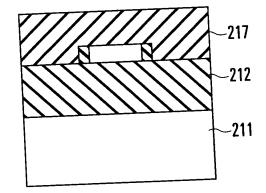


FIG. 15H



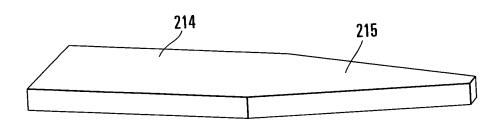


FIG. 16

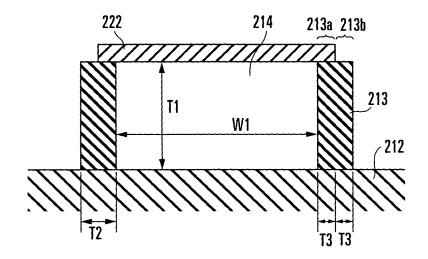


FIG. 17

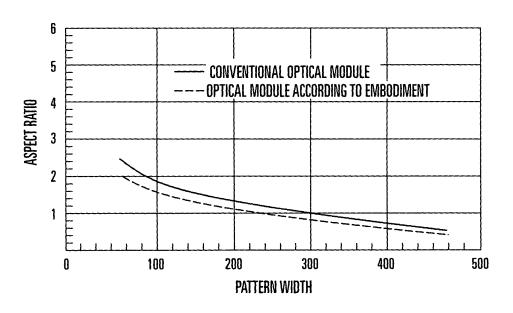


FIG. 18

FIG. 19A

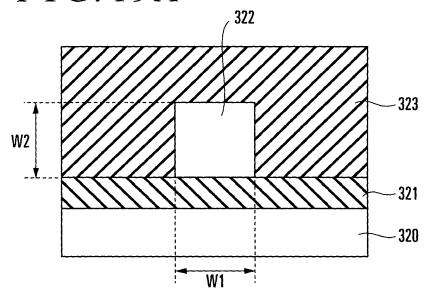
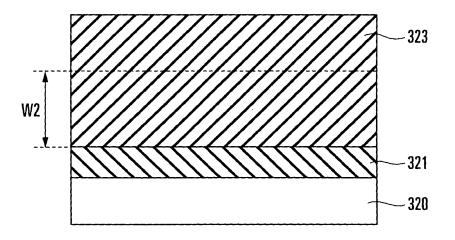
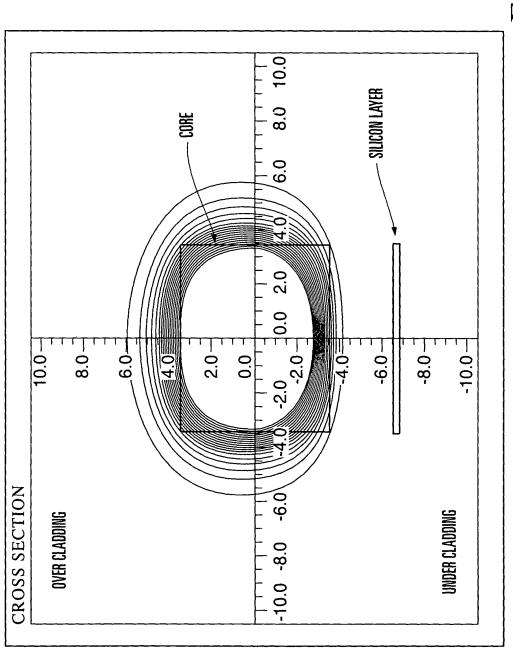
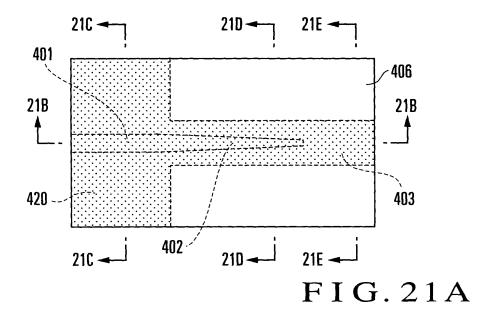


FIG. 19B







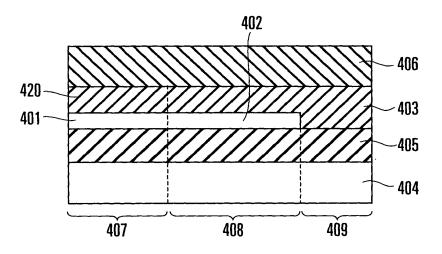


FIG. 21B

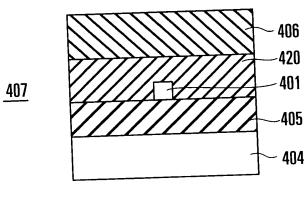


FIG. 21C

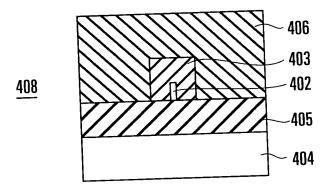


FIG. 21D

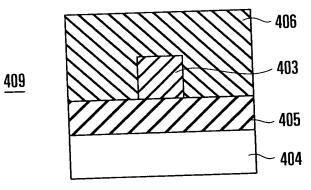


FIG. 21E

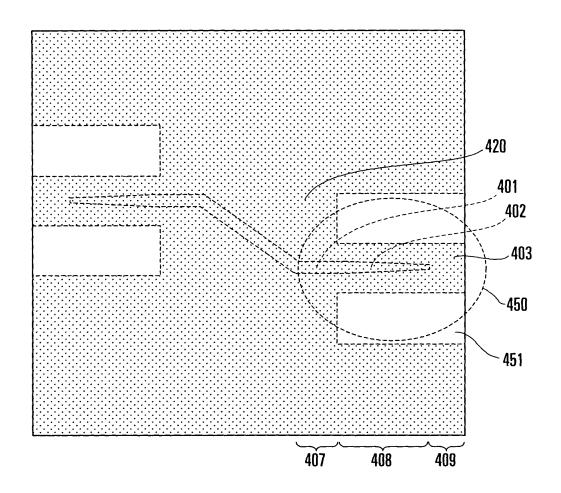
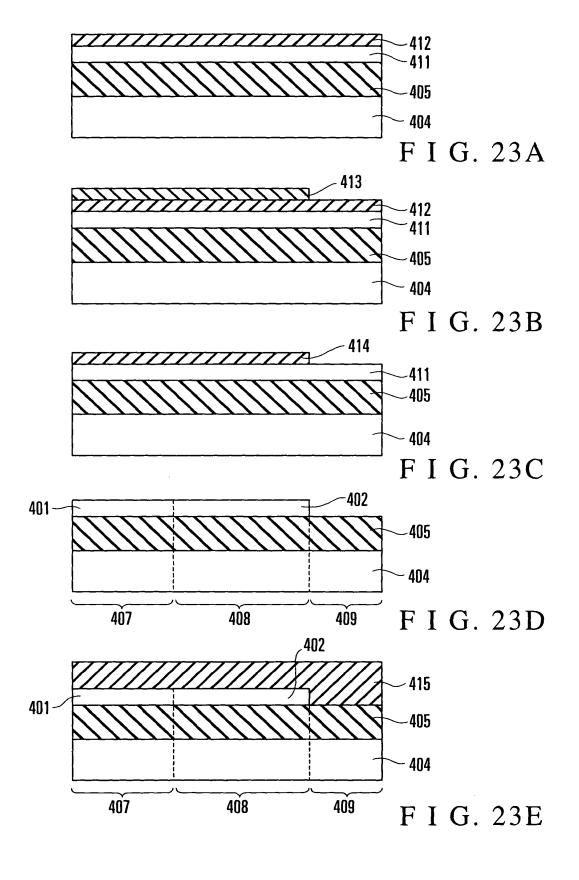
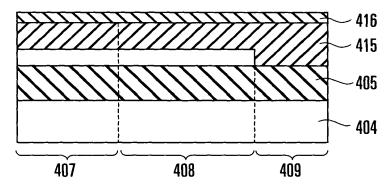
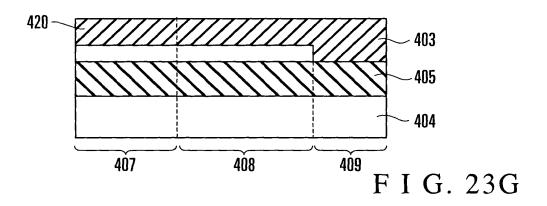


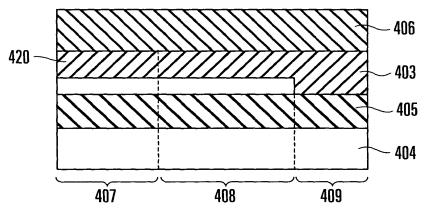
FIG. 22



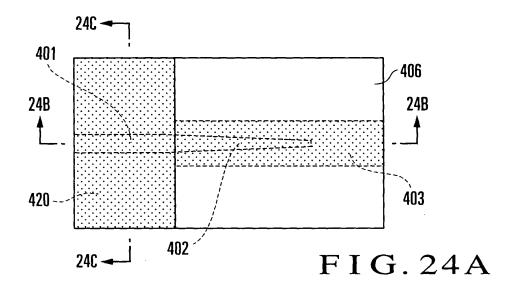


F I G. 23F





F I G. 23H



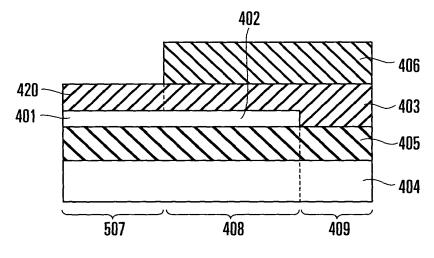


FIG. 24B

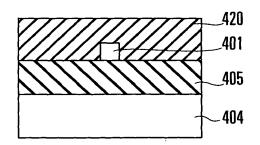


FIG. 24C

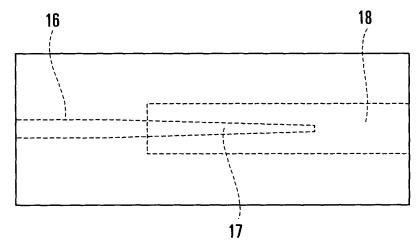


FIG. 25A PRIOR ART

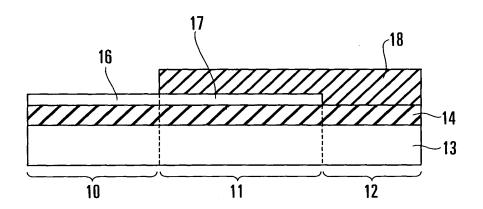


FIG. 25B PRIOR ART